

## - The Canary in the Coal Mine -

The canary is a little yellow bird.// They used to work in **coal mines underground**.// The birds **collapse**/ if they breathe in a deadly gas,/ and **warn** the miners/ of the unseen danger / in the dark.//

John Haldane discovered carbon monoxide gas/ in 1896.// It has no smell, no colour, and no taste;/ it is a **deadly poison**.// It can also cause **explosions**.// Haldane made a special bird-cage/ with an **air tank**/ that could save a bird/ after it had collapsed.// Miners often **fled** the danger so quickly / that their birds would survive,/ even without a safety cage.//

Many men/ **whistled** and talked to their **feathered** friends/ as they worked.// Canaries are not kept at mines today.// They have been replaced by **machines**.// The miners find it lonely,/ and no longer hear the bird-song/ while they work.// "Batteries can fail -/ canaries don't"/ one miner said.//

カナリアは小さな黄色い鳥である// 彼らは昔、炭鉱の地下で働いていた// その鳥たちは倒れてしまう / もし彼らが危険なガスを吸ってしまうと / そして鉱夫たちに警告する / まだ見ぬ危険について / 暗闇の中の//

ジョン・ホールデーンは一酸化炭素を発見した/ 1896年に// それは匂いも色も味も持たず/ 命にかかわる毒である// そのガスは爆発も起こすこともある// ホールデーンは特別な鳥カゴを作った/ 空気タンク付きの/ 鳥を救うことができる/ 鳥が倒れた後に// (しかし) 鉱夫たちは危険から非常に素早く逃げていたため/ カナリアは生き残ることがよくあった/ 安全カゴなしでも//

多くの人が/ 羽毛で覆われた友達に口笛を吹いたり話しかけたりした/ 労働中に// 今ではカナリアは炭鉱で飼われていない// 彼らは機械に置き換えられてしまった// 鉱夫たちはそれは寂しく思い / もはや鳥のさえずりを聞かない / 働いている間に// 「バッテリーは故障するかもしれないが/ カナリアは故障しない」 / ある一人の鉱夫は言った//

### Vocabulary and Phrases

coal mine	たんこう 炭鉱	air tank	くうき 空気タンク
> mine	こうせき こうざん 鉱石、鉱山	flee (> fled)	に 逃げる
underground	ち か 地下	whistle	くちぶえ ふ 口笛を吹く
collapse	たおれる、くずれる	feathered	はね 羽が付いている
deadly	いのち 命にかかわる、致命的に	machine	きかい 機械、マシン
poison	どく 毒		
explosion	ばくはつ 爆発		

### Total Number of words used

: 146 words

### Time for 100 wpm

: 88 sec.

### Time for 120 wpm

: 73 sec.

### Your BEST TIME

: \_\_\_\_\_ sec.



**【Listen & Fill Blank】**

The \_\_\_\_\_ is a little yellow bird. They used to work in coalmines \_\_\_\_\_. The birds collapse if they breathe in a \_\_\_\_\_, and warn the miners of the unseen danger in the dark.

John Haldane discovered carbon monoxide gas in \_\_\_\_\_. It has no smell, no \_\_\_\_\_, and no taste; and is a deadly \_\_\_\_\_. It can also cause explosions. Haldane made a special bird-cage with an \_\_\_\_\_ that could save a bird after it had collapsed. Miners often \_\_\_\_\_ the danger so quickly that their birds would survive, even without a \_\_\_\_\_.

Many men whistled and talked to their feathered \_\_\_\_\_ as they worked. Canaries are not kept at \_\_\_\_\_ today. They have been replaced by machines. The miners find it \_\_\_\_\_, and \_\_\_\_\_ hear the bird-song while they work. "Batteries can fail - canaries don't" one miner said.

**【Q&A / A&Q】**

**Question 1:** What is a canary ?

**Question 2:** Why did the miners prefer Canaries to machines?

**Question 3:** What is your favorite bird. Why?

**Ask 1:** 答えが「Haldane」である質問を英語で書いてください

**Ask 2:** Carbon monoxide についての質問を英語で書いてください

**Ask 3:** 本文について知りたいことを英語で1つ書いてください

**Sample Answer 1:** A little yellow bird once used to detect gas in mines.

**Sample Answer 2:** They are cute, and they don't fail like machines.

**Sample Answer 3:** I like eagles because they are strong.  
I like pigeons because they are gentle.  
I like chicken because it tastes good.  
Etc...

**Sample Question 1:** Who discovered carbon monoxide gas?  
Who invented the use of a special cage to protect canaries in mines?

**Sample Question 2:** What is carbon monoxide?  
How is carbon monoxide dangerous?  
When was carbon monoxide discovered?  
How much carbon monoxide can I breathe? Etc...

**Sample Question 3:** How many canaries worked in mines?  
What other birds do work?  
Why is the humane sometimes so inhuman?  
Etc...